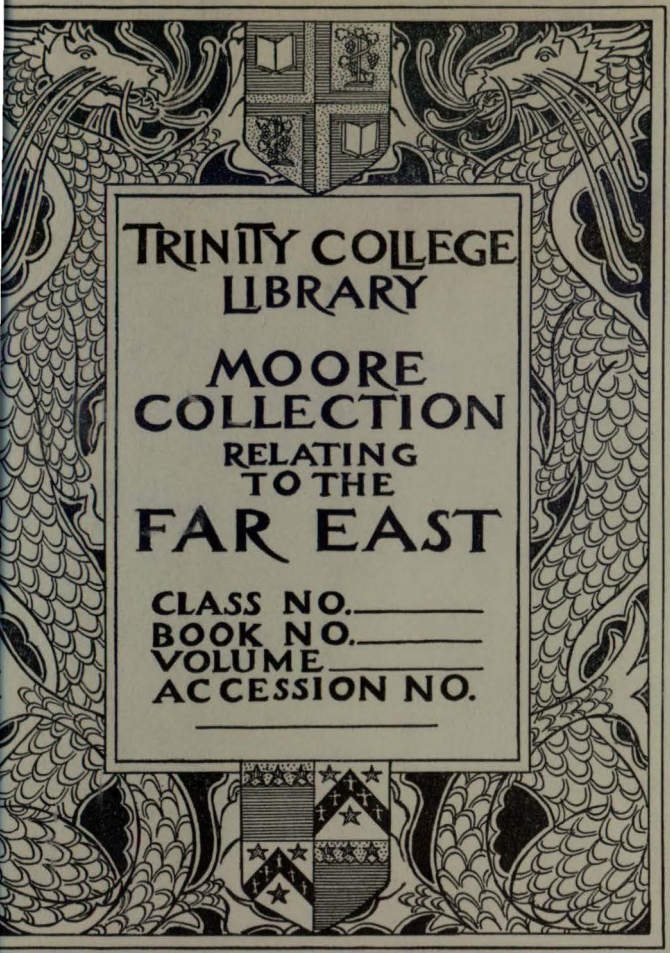

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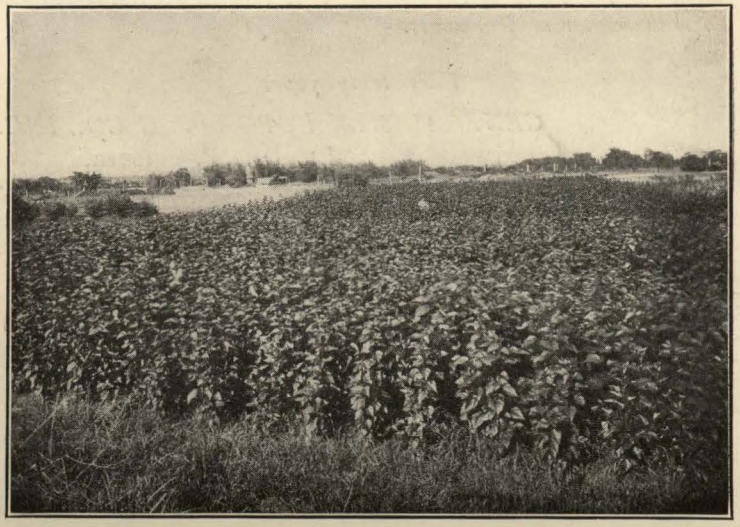
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SERICULTURE

AT

CANTON CHRISTIAN COLLEGE

CANTON, CHINA



ONE OF THE GROVES OF YOUNG MULBERRY

GENERAL SILK IMPORTING COMPANY, INC.
25 MADISON AVENUE
NEW YORK

New York, January 31, 1921.

Canton Christian College,
156 Fifth Avenue,
New York City.

Dear Dr. Edmunds:

In the Spring of 1917, the reelers of Canton were impressed with the fact that their product would be in increased demand and that a better price would be obtainable if skeins were wound according to American requirements.

Almost a year passed in development work and a few months more in "proving" the market. The revised skein required new equipment and new buildings for its process and yet this great industry was revolutionized so that to-day hardly 10% of the silk exported to America from Canton does not fulfill these specifications.

Canton Christian College has done excellent work in the furthering of the improvement in Canton silk and with its new equipment for the study of Sericulture, it is sure to assist the Chinese to still greater achievements.

Very truly yours,
GENERAL SILK IMPORTING CO., INC.,
LEONARD P. FRIEDER,
Vice-President.

South China Silk Improvement

SOUTH China is noted for the production of the variety of silkworm which spins the soft-natured, high-lustered silk known as "Cantons." The Canton Christian College, is concentrating upon the improvement of this variety peculiar to the region in which it operates. No efforts are at present made to introduce new varieties or to attempt hybridization, as such efforts might result in the unfavorable alteration of the present general type of Canton silk before control is established.

Modifications in the present methods of reeling

Reeling defects of South China silk have seriously checked the wider use of "Cantons." Considerable effort has been made by American interests to encourage the Cantonese to change the methods and equipment used in the filatures. When this is accomplished the silk filament is reeled from the cocoon into a raw silk thread which is clean, compact and in skeins of the proper size for the manufacturer. The Canton Christian College, by instruction and by the display of suitable equipment, is encouraging the Canton operators to meet this modern demand.

Distribution of high quality silkworm eggs

As elsewhere diseases are prevalent among the Canton worms, 60-80% being thus affected. This results in unprofitable culture and inferior silk. The College is now at work upon methods whereby large quantities of disease-free eggs can be sold to the farmers at small cost. A laboratory recently provided by The Silk Association of America is making it possible to turn out large quantities of these high-quality eggs in 1921. A dormitory provided by Mr. Marcus Frieder houses special students for short courses in sericulture.

Inferior mulberry leaves result in failure of the worms

Reports in 1920 on the last two crops of Canton silk indicate failure. One cause reported is an unknown condition affecting the quality of the mulberry leaves. At The Canton Christian College ten acres have been planted to mulberry. Projects are developing in the propagation, culture and fertilization of mulberry which will result in greatly reducing the present large risks of leaf crop failure. Upland culture is being tested which may greatly extend the area over which mulberry can be grown.

THE "HEAVENLY COW BORER" AND OTHER INSECTS AND DISEASES AFFECTING MULBERRY

One serious insect known by the Cantonese as "T'in Ngau Ch'ung" or "Heavenly Cow Borer" is now under observation by the college entomologist who is working out its life history. In Kwangtung alone this insect has damaged citrus and mulberry trees to the extent of millions of dollars, the adult feeding upon the trees and the larva boring in the trunks. The insect is known to entomologists by the name *Melanauster chinensis* Forst. Its appearance has never been reported in the United States; and we do not want it. But it is to our advantage, as well as to that of China, to know the complete life-history and work of this and other insects, and of diseases affecting important crops.

SERICULTURE FUNDAMENTAL TO SOUTH CHINA'S AGRICULTURAL DEVELOPMENT

The Canton Christian College is built upon large foundations and has work ranging from primary to college grades. It is making agriculture a fundamental factor in its educational development and has recognized sericulture as a most important branch of its agricultural program.

PERMANENT FAMINE RELIEF

This winter millions of China's peasants are starving. But by means of agricultural, forest and irrigation development, as well as by flood control, police protection and transportation, China could develop her marvelous land and labor resources to the point where she could not only provide her own but also world needs for food and raw materials. If the economic organization in China were better developed many of China's starving could find in the culture of the silkworm a redeeming occupation.

ENCOURAGING FRIENDLY RELATIONSHIP WITH CHINA

The Canton Christian College, by working along these practical lines, assures friendly relationship not only with China's peasantry but also with her merchants gentry and officials.

INFLUENCING INTERNATIONAL TRADE

Until China produces more at home, she cannot buy more abroad. It is vitally essential she should develop for export, products which she is especially equipped by nature to produce, in order to buy from other countries materials and equipments which she needs for her own development. For the present China's logical field is in the production of raw materials, rather than of manufactured articles, and of these silk is the most important.

RURAL LEADERSHIP NEEDED IN CHINA

China's great need is leadership. The country awaits rural development. The Canton Christian College is a "man factory" providing China with technical and spiritual leadership. In this field of agriculture there is an unprecedented opportunity.

OTHER AGRICULTURAL PROJECTS AT THE CANTON CHRISTIAN COLLEGE

Conducting a model, self-supporting, Chinese-American farm with dairy, poultry and pork production; also seed, grain, vegetable and fruit production.

Instructing college students in agriculture and related subjects.

Organizing secondary school agriculture and school gardens.

Introducing American plants to China, and Chinese plants to America.

Providing propagating and quarantine base for development and exchange of the best native varieties of Chinese plants.

Developing the water buffalo as a tropical source of milk supply.

Conducting investigations in China in the fields of natural history and agriculture which will help reorganize the agriculture of China and also play a great part in the development of world agriculture.

STRIKING GROWTH OF CANTON CHRISTIAN COLLEGE

A striking feature of this college is the rapidity of its growth since 1904, shown as follows:

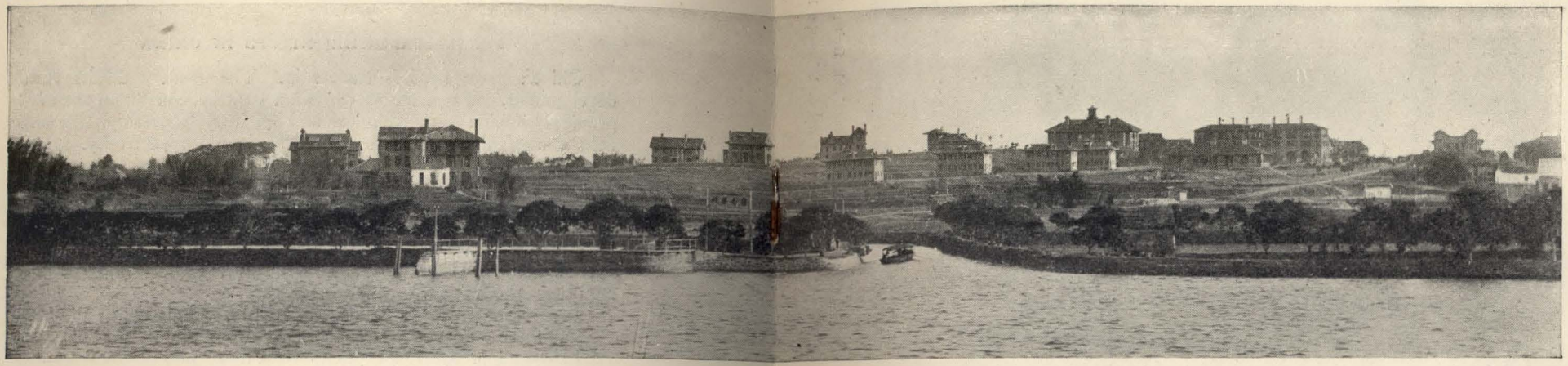
	1904	1921
Campus (acres)	30	200
Buildings	2	35
Students	60	690
Staff—Western	6	36
Chinese	6	54
Current Expenses	$20,000	$297,000

SOURCES OF SUPPORT

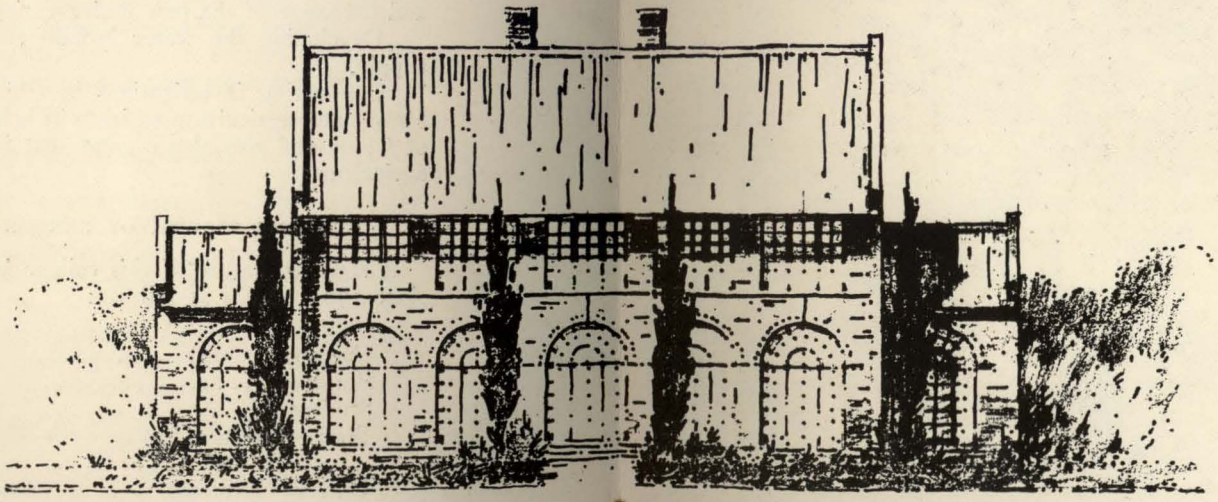
The students pay tuition besides covering all their living expenses. Additional scholarship funds are urgently needed to enable poor but worthy students to contine their preparation for a life of service.

The College earns more than half of its total cost of maintenance by fees and rentals while Chinese friends have provided fifteen of the thirty-five permanent buildings. With this evidence of Chinese appreciation and in the absence of endowment we must look to American friends to cover the operating deficit.

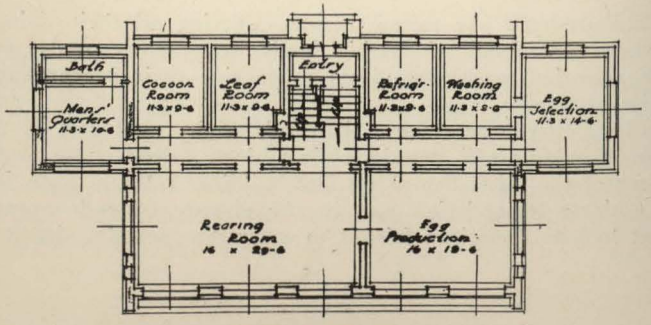
CANTON CHRISTIAN COLLEGE



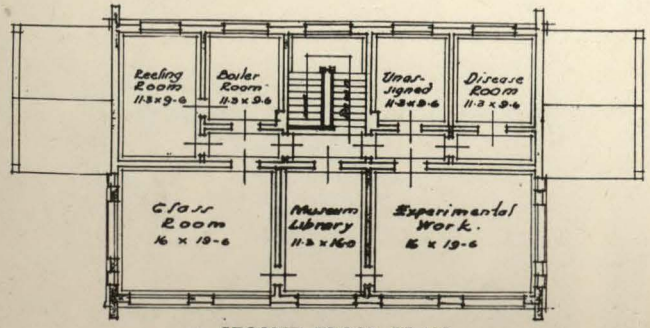
EASTERN HALF OF CAMPUS AS SEEN FROM RIVER STEAMER



SILK INDUSTRY BUILDING, FOR THE TRAINING OF SILK EXPERTS; PROVIDED BY THE SILK ASSOCIATION OF AMERICA; COST $13,000



FIRST FLOOR PLAN



SECOND FLOOR PLAN



LYCHEE TREES AND EXPERIMENTAL RICE FIELDS—NORTHERN FRONT OF COLLEGE CAMPUS

The lychee trees here shown along the dikes are often planted in association with mulberry. The lychee is the choicest of China's many remarkable fruits. The results of Mr. Groff's studies of the lychee are about to be published.

Rice is the staple food of South China, hence the improvement in quality and in yield is of prime importance. Since the delta country is largely below the high tide level, the most common variety met with is that which requires standing water. Experiments are also being conducted in upland rice that needs less water.

America's opportunity for trade with China depends largely upon the preparation of the Chinese people through such agencies as the Canton Christian College.

WHAT CANTON CHRISTIAN COLLEGE IS AND DOES

It is the only college among thirty million Cantonese, admittedly the most strategic element in China. The college is strictly non-denominational. It is co-educational. It seeks to train the Chinese people in standard occidental industrial and social practices. It emphasizes agriculture and the training of native teachers and engineers to carry on the work throughout China.

Although receiving no support from Denominational Boards the Canton Christian College is one of the most stimulating influences in the Orient for the spread of Christianity, and maintains its Christian training as an essential factor in the conversion of the Far Easterner to Western standards of progress and civilization.

It is preparing the people of China to co-operate with the people of America culturally and commercially.

WHAT YOU CAN DO

Canton Christian College needs your interest and support. American farm machinery adaptable to China and industrial and laboratory equipment are needed. Gifts and bequests, large or small, are urgently needed to enable this important institution to maintain its work during the present trying times. They should be made payable to:

Trustees Canton Christian College,
156 Fifth Ave.,
New York City.

Enroll as a friend of the College, whether you can aid financially or not, by giving your name and address to the attendant in charge of the College Exhibit.

CANTON CHRISTIAN COLLEGE

AN AMERICAN-CHINESE COOPERATIVE ENTERPRISE INCORPORATED UNDER THE REGENTS OF THE UNIVERSITY OF THE STATE OF NEW YORK

NON-DENOMINATIONAL CO-EDUCATIONAL

Offers courses in General Arts and Sciences and is developing the following

SPECIAL DEPARTMENTS

Agriculture	Medicine
Sericulture	Education
Engineering	Business Administration

TRUSTEES OF CANTON CHRISTIAN COLLEGE

HERBERT PARSONS, *President*
FRANCIS S. PHRANER, *1st Vice-Pres.*
CHARLES H. PARKHURST, *2nd Vice-Pres.*
W. HENRY GRANT, *Secretary*
FREDERICK OSBORN, *Treasurer*
EDWIN J. GILLIES,
C. K. EDMUNDS, *President of the College.*

WILLIAM WISTAR COMFORT	WARREN P. LAIRD
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F. H. HAWKINS, London	LEBBEUS B. MILLER

DAVID EUGENE SMITH

CHENEY SILKS

CHENEY BROTHERS

MANUFACTURERS

SOUTH MANCHESTER,
CONNECTICUT

January 29, 1921.

Dr. C. K. Edmunds,
President, Canton Christian College,
156 Fifth Avenue, New York, N. Y.

Dear Dr. Edmunds:

I am glad to express my appreciation of the work of Canton Christian College, as I observed it at the time of the visit of the American Silk Mission in March, 1920.

I cannot speak too highly of this organization and of the splendid work which it is doing, from many points of view. The situation is excellent; the plan of the grounds is very attractive; the buildings and physical equipment are surprising, and admirably adapted for the uses to which they are put, and the staff appears to be composed of active, self-sacrificing, intelligent and practical young men, who have undertaken their work with a splendid spirit, and are carrying it out in a way calculated to yield large results, both for the benefit of the Chinese and for the betterment of their international relationship with our country.

There seems to be an absence of emphasis upon doctrinaire teaching and an effort to teach, by precept and example, practical christianity as it is exemplified in right living and fair dealing.

I am very glad indeed that the College has realized that they have a splendid avenue of approach to the people by means of teaching proper methods in the raising of mulberry trees and silk cocoons. The opportunities of the Canton field in this direction are very great and success has always been hampered by the lack of understanding of approved methods and proper technique. Your young men, in teaching the Chinese how to get larger and better results for their labor, are doing a piece of real constructive work, which will redound to the reputation of the college and to the success of our American silk industry.

I wish you success in your fine undertaking.

Yours very respectfully,

CHARLES CHENEY.



AGRICULTURAL EXHIBIT OF CANTON CHRISTIAN COLLEGE
Visited by over 4,000 Chinese in a single day



JOHN R. FREEMAN METEOROLOGICAL OBSERVATORY
Conducted by the College Department of Physics
Furnishes valuable data for use in connection with agricultural experiments